INTERNATIONAL SEARCH REPORT

PCT/6B2004/004767

			1017 4020047 0047 07							
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H05K7/20 H02G9/10										
According to International Patent Classification (IPC) or to both national classification and IPC										
	SEARCHED									
Minimum documentation searched (classification system followed by classification symbols) IPC 7 H05K H02G										
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched										
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal										
C. DOCUMENTS CONSIDERED TO BE RELEVANT										
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.							
X	US 3 461 952 A (ROBERT M. DECKER 19 August 1969 (1969-08-19)	ET AL)	1,2, 13-17, 20,21, 23-27,							
Y Y	the whole document	36,37 2,6,7 18,19								
Y	US 6 304 444 B1 (COMBS CHARLES D 16 October 2001 (2001-10-16) the whole document	2,6,7								
X	US 4 564 061 A (RAUTH ET AL) 14 January 1986 (1986-01-14) the whole document		28-30							
		-/								
X Furt	her documents are listed in the continuation of box C.	χ Patent family	members are listed in annex.							
"A" docume consid	itegories of cited documents : ent defining the general state of the art which is not dered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention								
filing c		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to								
citation O' docume	ent which may throw doubts on priority claim(s) or is clied to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other.								
P docume	ent published prior to the international filing date but that the priority date claimed	ments, such combination being obvious to a person skilled in the art. '&' document member of the same patent family								
Date of the	actual completion of the international search	Date of mailing of the international search report								
1	4 April 2005	22/04/2005								
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer								
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Toussaint, F								

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PCT/GB2004/004767

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·		
itegory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
(US 2 625 804 A (PATCH ARTHUR H ET AL) 20 January 1953 (1953-01-20) the whole document	1,13,21		
4	US 2 247 936 A (BISHOP WALTER M) 1 July 1941 (1941-07-01) the whole document	3-5		
4	US 5 956 230 A (GRAJEWSKI ET AL)	8-12		
Y	21 September 1999 (1999-09-21) the whole document	18,19		
A	WO 00/62590 A (ECI TELECOM LTD; BERGER THERMAL RESEARCH LTD; BERGER, ABRAHAM; HAZAN,) 19 October 2000 (2000-10-19) cited in the application the whole document	1,13,23, 28,36		

INTERNATIONAL SEARCH REPORT

PCT/GB2004/004767

	atent document d In search report		Publication date		Patent family member(s)	Publication date
US	3461952	Α	19-08-1969	NONE		······································
US	6304444	B1	16-10-2001	NONE		7 M3 M3 (m)
US	4564061	Α	14-01-1986	DE CA DE EP	3150166 A1 1219327 A1 3275806 D1 0082280 A1	17-03-1987 23-04-1987
US	2625804	A	20-01-1953	NONE		
US	2247936	Α	01-07-1941	NONE		
US	5956230	A	21-09-1999	DE AT CN DE EP ES ZA	29602552 U1 196389 T 1173454 A 59702329 D1 0790688 A1 2150194 T3 9701230 A	15-09-2000 18-02-1998 19-10-2000 20-08-1997
WO	0062590	Α	19-10-2000	AU WO	3573700 A 0062590 A1	14-11-2000 19-10-2000